

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22E With Open Throat Top
109,100 Lb. Counterweight
360 Degree Rating

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line or combination of two single part lines is 29,500 Lbs. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 176519** and Wire Rope Specification chart **No. 7773-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine

depreciation. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7771-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, four 1-3/8 in. boom pendants and 109,100 Lb. counterweight.

Deduct 4,000 Lbs. from capacities
when boom butt is equipped
with auxiliary drum.

Maximum Boom Lengths Lifted Unassisted With or Without Auxiliary Drum in Boom Butt			
Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers	Over Side of Retracted Crawlers
Boom Length	Boom Length	Boom Length	Boom Length
220 Ft.	210 Ft.	190 Ft.	180 Ft.
Load block, hook and weight ball on ground at start.			



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
70 Ft. BOOM				
15	81.8	77.4	406,900 *	406,900 *
16	81.0	77.2	383,300 *	383,300 *
17	80.1	77.0	343,600	362,200 *
18	79.3	76.9	306,900	343,200 *
19	78.5	76.7	277,100	326,100 *
20	77.6	76.4	252,400	310,500 *
22	75.9	76.0	213,900	272,700
24	74.3	75.4	185,200	232,100
26	72.5	74.8	162,900	201,700
28	70.8	74.2	145,200	178,100
30	69.1	73.5	130,800	159,100
32	67.3	72.7	118,800	143,700
34	65.5	71.8	108,600	130,700
36	63.7	70.8	100,000	119,800
38	61.9	69.8	92,500	110,400
40	60.0	68.7	85,900	102,300
42	58.1	67.5	80,100	95,200
44	56.1	66.2	75,000	88,900
46	54.1	64.8	70,400	83,300
48	52.1	63.3	66,200	78,300
50	50.0	61.7	62,500	73,800
55	44.4	57.1	54,500	64,300
60	38.2	51.4	48,000	56,600
65	31.0	44.1	42,700	50,300
70	21.8	34.0	38,100	45,000
80 Ft. BOOM				
17	81.4	87.2	344,300	361,600 *
18	80.6	87.0	307,500	342,600 *
19	79.9	86.8	277,600	325,400 *
20	79.2	86.7	252,800	309,900 *
22	77.7	86.2	214,100	273,200
24	76.3	85.8	185,300	232,500
26	74.8	85.3	163,000	202,000
28	73.3	84.7	145,300	178,300
30	71.8	84.1	130,800	159,300
32	70.3	83.4	118,800	143,700
34	68.7	82.6	108,600	130,800
36	67.2	81.8	99,900	119,800
38	65.6	80.9	92,400	110,400
40	64.1	80.0	85,800	102,300
42	62.5	79.0	80,000	95,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
80 Ft. BOOM				
44	60.8	77.9	74,800	88,800
46	59.2	76.8	70,200	83,200
48	57.5	75.5	66,100	78,200
50	55.8	74.2	62,300	73,700
55	51.3	70.5	54,300	64,100
60	46.6	66.2	47,900	56,500
65	41.4	61.0	42,500	50,200
70	35.7	54.7	38,000	44,900
75	29.0	46.8	34,200	40,500
80	20.4	35.9	30,800	36,600
90 Ft. BOOM				
18	81.7	97.1	307,900	341,800 *
19	81.1	97.0	277,900	324,700 *
20	80.4	96.8	253,100	309,100 *
22	79.1	96.4	214,300	273,500
24	77.8	96.0	185,400	232,700
26	76.5	95.6	163,000	202,100
28	75.2	95.1	145,200	178,300
30	73.9	94.5	130,700	159,300
32	72.5	93.9	118,600	143,700
34	71.2	93.3	108,400	130,700
36	69.9	92.6	99,700	119,700
38	68.5	91.8	92,200	110,300
40	67.1	91.0	85,600	102,100
42	65.7	90.1	79,700	95,000
44	64.3	89.2	74,600	88,600
46	62.9	88.2	69,900	83,000
48	61.5	87.1	65,800	78,000
50	60.0	86.0	62,000	73,500
55	56.3	82.9	54,000	63,900
60	52.3	79.3	47,600	56,200
65	48.2	75.2	42,200	50,000
70	43.8	70.3	37,800	44,700
75	38.9	64.6	33,900	40,200
80	33.6	57.8	30,600	36,400
85	27.3	49.3	27,700	33,000
90	19.2	37.6	25,100	30,100



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100 Ft. BOOM				
19	82.0	107.1	278,500	324,300 *
20	81.4	106.9	253,600	308,700 *
22	80.2	106.6	214,600	274,100
24	79.0	106.2	185,600	233,200
26	77.9	105.8	163,200	202,500
28	76.7	105.4	145,300	178,600
30	75.5	104.9	130,800	159,500
32	74.3	104.4	118,600	143,800
34	73.1	103.8	108,400	130,800
36	71.9	103.1	99,700	119,700
38	70.7	102.5	92,100	110,300
40	69.5	101.7	85,500	102,100
42	68.3	101.0	79,600	94,900
44	67.0	100.2	74,500	88,600
46	65.8	99.3	69,800	82,900
48	64.5	98.4	65,700	77,900
50	63.3	97.4	61,900	73,400
55	60.0	94.7	53,900	63,800
60	56.6	91.6	47,400	56,100
65	53.1	88.1	42,000	49,800
70	49.5	84.1	37,600	44,500
75	45.6	79.5	33,700	40,100
80	41.4	74.2	30,400	36,200
85	36.9	68.1	27,500	32,900
90	31.8	60.7	25,000	30,000
95	25.8	51.7	22,700	27,400
100	18.2	39.3	20,700	25,000
110 Ft. BOOM				
22	81.1	116.7	214,600	274,300
24	80.1	116.4	185,500	233,200
26	79.0	116.0	163,100	202,400
28	77.9	115.6	145,100	178,500
30	76.9	115.2	130,500	159,300
32	75.8	114.7	118,400	143,600
34	74.7	114.2	108,100	130,600
36	73.6	113.6	99,400	119,500
38	72.5	113.0	91,800	110,000
40	71.4	112.4	85,100	101,800
42	70.3	111.7	79,300	94,600
44	69.2	110.9	74,100	88,300
46	68.1	110.1	69,400	82,600
48	67.0	109.3	65,300	77,600
50	65.9	108.4	61,500	73,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
110 Ft. BOOM				
55	63.0	106.0	53,400	63,400
60	60.0	103.3	47,000	55,700
65	56.9	100.3	41,600	49,400
70	53.8	96.8	37,100	44,100
75	50.5	92.9	33,300	39,700
80	47.0	88.5	30,000	35,800
85	43.3	83.6	27,100	32,500
90	39.4	77.9	24,600	29,600
95	35.1	71.3	22,300	27,000
100	30.3	63.5	20,300	24,700
105	24.6	53.9	18,500	22,600
110	17.3	40.9	16,800	20,700
120 Ft. BOOM				
22	81.9	126.9	214,400	274,200
24	80.9	126.6	185,300	233,100
26	79.9	126.2	162,800	202,300
28	78.9	125.8	144,900	178,300
30	78.0	125.4	130,300	159,100
32	77.0	125.0	118,100	143,400
34	76.0	124.5	107,800	130,300
36	75.0	124.0	99,100	119,300
38	74.0	123.4	91,500	109,800
40	73.0	122.9	84,800	101,500
42	72.0	122.2	79,000	94,300
44	71.0	121.6	73,800	88,000
46	70.0	120.8	69,100	82,300
48	69.0	120.1	64,900	77,300
50	68.0	119.3	61,200	72,700
55	65.4	117.2	53,100	63,100
60	62.7	114.7	46,600	55,400
65	60.0	112.0	41,300	49,100
70	57.2	108.9	36,800	43,800
75	54.3	105.5	33,000	39,400
80	51.3	101.7	29,700	35,600
85	48.2	97.5	26,800	32,200
90	44.9	92.8	24,300	29,300
95	41.4	87.4	22,100	26,700
100	37.7	81.4	20,100	24,400
105	33.6	74.4	18,300	22,400
110	29.0	66.2	16,600	20,500
115	23.6	56.0	15,100	18,800
120	16.6	42.3	13,700	17,200



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130 Ft. BOOM				
24	81.6	136.7	185,400	233,300
26	80.7	136.4	162,900	202,400
28	79.8	136.0	144,900	178,400
30	78.9	135.6	130,300	159,200
32	78.0	135.2	118,100	143,500
34	77.1	134.8	107,800	130,400
36	76.2	134.3	99,000	119,300
38	75.3	133.8	91,400	109,800
40	74.4	133.3	84,800	101,500
42	73.5	132.7	78,900	94,300
44	72.5	132.1	73,700	87,900
46	71.6	131.4	69,000	82,300
48	70.7	130.8	64,900	77,200
50	69.7	130.0	61,100	72,700
55	67.4	128.1	53,000	63,000
60	65.0	125.9	46,500	55,300
65	62.5	123.4	41,200	49,000
70	60.0	120.7	36,700	43,700
75	57.4	117.6	32,900	39,300
80	54.8	114.3	29,600	35,500
85	52.0	110.5	26,700	32,100
90	49.2	106.4	24,200	29,200
95	46.2	101.9	22,000	26,600
100	43.0	96.8	20,000	24,400
105	39.7	91.1	18,200	22,300
110	36.1	84.7	16,500	20,400
115	32.2	77.4	15,000	18,700
120	27.8	68.7	13,700	17,200
125	22.6	58.1	12,400	15,800
130	15.9	43.8	11,200	14,400
140 Ft. BOOM				
26	81.4	146.5	162,600	202,200
28	80.5	146.2	144,600	178,200
30	79.7	145.8	130,000	158,900
32	78.9	145.4	117,800	143,200
34	78.0	145.0	107,500	130,100
36	77.2	144.6	98,700	119,000
38	76.4	144.1	91,100	109,500
40	75.5	143.6	84,400	101,200
42	74.7	143.1	78,600	94,000
44	73.8	142.5	73,300	87,600
46	73.0	141.9	68,700	82,000
48	72.1	141.3	64,500	76,900
50	71.3	140.6	60,700	72,300
55	69.1	138.8	52,700	62,700
60	66.9	136.8	46,200	55,000
65	64.6	134.6	40,800	48,700
70	62.3	132.1	36,300	43,400
75	60.0	129.3	32,500	38,900
80	57.6	126.3	29,200	35,100
85	55.2	123.0	26,400	31,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
140 Ft. BOOM				
90	52.6	119.3	23,800	28,900
95	50.0	115.3	21,600	26,300
100	47.3	110.9	19,600	24,000
105	44.4	106.0	17,800	22,000
110	41.4	100.7	16,200	20,100
115	38.2	94.7	14,700	18,400
120	34.8	87.9	13,400	16,900
125	31.0	80.2	12,100	15,500
130	26.8	71.1	11,000	14,200
135	21.8	60.0	9,900	13,000
140	15.4	45.2	8,900	11,800
150 Ft. BOOM				
26	82.0	156.6	162,400	202,200
28	81.2	156.3	144,400	178,100
30	80.4	156.0	129,700	158,800
32	79.6	155.6	117,500	143,000
34	78.9	155.2	107,200	129,900
36	78.1	154.8	98,400	118,700
38	77.3	154.4	90,700	109,200
40	76.5	153.9	84,000	100,900
42	75.7	153.4	78,200	93,700
44	74.9	152.9	72,900	87,300
46	74.1	152.4	68,300	81,600
48	73.3	151.8	64,100	76,500
50	72.5	151.2	60,300	71,900
55	70.5	149.5	52,200	62,300
60	68.5	147.6	45,700	54,500
65	66.4	145.5	40,300	48,200
70	64.3	143.3	35,800	42,900
75	62.2	140.7	32,000	38,500
80	60.0	138.0	28,700	34,600
85	57.8	135.0	25,800	31,300
90	55.5	131.7	23,300	28,400
95	53.1	128.1	21,100	25,800
100	50.7	124.2	19,100	23,500
105	48.2	119.9	17,300	21,500
110	45.6	115.2	15,700	19,600
115	42.8	110.0	14,200	17,900
120	39.9	104.4	12,900	16,400
125	36.9	98.1	11,600	15,000
130	33.6	91.0	10,500	13,700
135	29.9	82.9	9,400	12,500
140	25.8	73.5	8,500	11,400
145	21.0	61.9	7,500	10,300



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160 Ft. BOOM				
28	81.7	166.4	144,100	177,800
30	81.0	166.1	129,300	158,500
32	80.3	165.8	117,100	142,700
34	79.6	165.4	106,800	129,500
36	78.8	165.0	98,000	118,400
38	78.1	164.6	90,300	108,800
40	77.4	164.2	83,700	100,500
42	76.6	163.7	77,800	93,300
44	75.9	163.2	72,500	86,900
46	75.2	162.7	67,900	81,200
48	74.4	162.2	63,700	76,100
50	73.7	161.6	59,900	71,600
55	71.8	160.1	51,800	61,900
60	69.9	158.3	45,300	54,100
65	68.0	156.4	39,900	47,800
70	66.0	154.3	35,400	42,500
75	64.1	151.9	31,600	38,100
80	62.0	149.4	28,300	34,200
85	60.0	146.6	25,400	30,900
90	57.9	143.6	22,900	28,000
95	55.8	140.4	20,700	25,400
100	53.6	136.8	18,700	23,100
105	51.3	133.0	16,900	21,100
110	49.0	128.8	15,300	19,200
115	46.6	124.3	13,800	17,500
120	44.0	119.3	12,500	16,000
125	41.4	113.9	11,200	14,600
130	38.6	107.9	10,100	13,300
135	35.7	101.3	9,100	12,100
140	32.5	93.9	8,100	11,000
145	29.0	85.5	7,200	10,000
150	25.0	75.7	6,300	9,000
155	20.4	63.7	5,500	8,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
170 Ft. BOOM				
30	81.5	176.2	129,100	158,300
32	80.9	175.9	116,900	142,500
34	80.2	175.6	106,600	129,300
36	79.5	175.2	97,700	118,200
38	78.8	174.8	90,100	108,600
40	78.1	174.4	83,400	100,300
42	77.4	174.0	77,500	93,100
44	76.7	173.5	72,300	86,700
46	76.0	173.1	67,600	81,000
48	75.3	172.5	63,400	75,900
50	74.7	172.0	59,600	71,300
55	72.9	170.5	51,500	61,600
60	71.1	168.9	45,000	53,900
65	69.3	167.1	39,600	47,500
70	67.5	165.2	35,100	42,300
75	65.7	163.0	31,300	37,800
80	63.8	160.6	28,000	33,900
85	61.9	158.1	25,100	30,600
90	60.0	155.3	22,600	27,700
95	58.0	152.3	20,400	25,100
100	56.0	149.0	18,400	22,800
105	54.0	145.5	16,600	20,800
110	51.9	141.8	15,000	18,900
115	49.7	137.7	13,500	17,300
120	47.4	133.3	12,200	15,700
125	45.1	128.5	11,000	14,300
130	42.7	123.3	9,800	13,100
135	40.1	117.6	8,800	11,900
140	37.4	111.4	7,800	10,800
145	34.6	104.5	6,900	9,800
150	31.5	96.8	6,100	8,800
155	28.1	88.1	5,300	7,900
160	24.2	77.9	4,600	7,100
165	19.7	65.5	4,000	6,300



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180 Ft. BOOM				
30	82.0	186.3	128,800	158,000
32	81.4	186.0	116,500	142,200
34	80.7	185.7	106,200	129,000
36	80.1	185.4	97,300	117,800
38	79.4	185.0	89,700	108,300
40	78.8	184.6	83,000	100,000
42	78.1	184.2	77,100	92,700
44	77.5	183.8	71,900	86,300
46	76.8	183.3	67,200	80,600
48	76.2	182.9	63,000	75,500
50	75.5	182.4	59,200	70,900
55	73.9	181.0	51,100	61,200
60	72.2	179.5	44,600	53,500
65	70.5	177.8	39,200	47,100
70	68.8	175.9	34,700	41,800
75	67.1	173.9	30,900	37,400
80	65.4	171.7	27,600	33,500
85	63.6	169.3	24,700	30,200
90	61.8	166.7	22,200	27,300
95	60.0	164.0	20,000	24,700
100	58.1	161.0	18,000	22,400
105	56.3	157.7	16,200	20,400
110	54.3	154.3	14,600	18,500
115	52.3	150.5	13,100	16,800
120	50.3	146.5	11,800	15,300
125	48.2	142.2	10,600	13,900
130	46.0	137.6	9,400	12,600
135	43.8	132.6	8,400	11,500
140	41.4	127.1	7,400	10,400
145	38.9	121.2	6,500	9,400
150	36.3	114.7	5,700	8,400
155	33.6	107.6	4,900	7,500
160	30.6	99.6	4,200	6,700
165	27.3	90.5		5,900
170	23.6	80.0		5,200
175	19.2	67.2		4,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. BOOM				
32	81.8	196.1	116,300	142,000
34	81.2	195.8	105,900	128,800
36	80.6	195.5	97,000	117,600
38	80.0	195.2	89,400	108,000
40	79.4	194.8	82,700	99,700
42	78.8	194.4	76,700	92,400
44	78.2	194.0	71,500	86,000
46	77.5	193.6	66,800	80,300
48	76.9	193.1	62,600	75,100
50	76.3	192.7	58,800	70,500
55	74.7	191.4	50,700	60,800
60	73.2	189.9	44,100	53,100
65	71.6	188.3	38,700	46,700
70	70.0	186.6	34,200	41,400
75	68.4	184.7	30,400	36,900
80	66.8	182.6	27,100	33,100
85	65.1	180.4	24,200	29,700
90	63.4	178.0	21,700	26,800
95	61.7	175.4	19,400	24,200
100	60.0	172.6	17,400	21,900
105	58.2	169.6	15,700	19,900
110	56.5	166.4	14,000	18,000
115	54.6	163.0	12,600	16,300
120	52.8	159.3	11,200	14,800
125	50.8	155.4	10,000	13,400
130	48.9	151.2	8,900	12,100
135	46.8	146.6	7,900	10,900
140	44.7	141.8	6,900	9,800
145	42.5	136.5	6,000	8,800
150	40.3	130.8	5,200	7,900
155	37.9	124.7	4,400	7,000
160	35.3	118.0		6,200
165	32.6	110.5		5,400
170	29.7	102.3		4,700
175	26.5	92.9		4,000



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22E With Open Throat Top
109,100 Lb. Counterweight
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
200 Ft. BOOM				
34	81.7	206.0	105,500	128,400
36	81.1	205.7	96,600	117,200
38	80.5	205.3	88,900	107,600
40	79.9	205.0	82,200	99,300
42	79.3	204.6	76,300	92,000
44	78.8	204.2	71,100	85,600
46	78.2	203.8	66,400	79,800
48	77.6	203.4	62,200	74,700
50	77.0	202.9	58,300	70,100
55	75.5	201.7	50,200	60,400
60	74.0	200.4	43,700	52,600
65	72.5	198.9	38,300	46,300
70	71.0	197.2	33,800	40,900
75	69.5	195.4	29,900	36,500
80	68.0	193.5	26,600	32,600
85	66.4	191.4	23,700	29,300
90	64.8	189.1	21,200	26,300
95	63.3	186.7	19,000	23,800
100	61.6	184.1	17,000	21,500
105	60.0	181.3	15,200	19,400
110	58.3	178.3	13,600	17,600
115	56.6	175.1	12,100	15,900
120	54.9	171.7	10,800	14,300
125	53.1	168.1	9,600	13,000
130	51.3	164.2	8,400	11,700
135	49.5	160.1	7,400	10,500
140	47.5	155.6	6,400	9,400
145	45.6	150.9	5,500	8,400
150	43.5	145.8	4,700	7,400
155	41.4	140.4		6,600
160	39.2	134.5		5,700
165	36.9	128.1		5,000
170	34.4	121.1		4,200
210 Ft. BOOM				
36	81.5	215.8	96,300	116,900
38	81.0	215.5	88,600	107,300
40	80.4	215.1	81,900	99,000
42	79.9	214.8	76,000	91,700
44	79.3	214.4	70,700	85,300
46	78.7	214.0	66,000	79,500
48	78.2	213.6	61,800	74,400
50	77.6	213.2	58,000	69,800
55	76.2	212.0	49,900	60,100
60	74.8	210.7	43,300	52,300
65	73.4	209.3	38,000	45,900
70	72.0	207.8	33,400	40,600
75	70.5	206.1	29,600	36,100
80	69.1	204.2	26,300	32,300
85	67.6	202.2	23,400	28,900
90	66.1	200.1	20,900	26,000
95	64.6	197.8	18,600	23,400
100	63.1	195.4	16,600	21,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
210 Ft. BOOM				
105	61.6	192.7	14,800	19,100
110	60.0	189.9	13,200	17,200
115	58.4	187.0	11,800	15,500
120	56.8	183.8	10,400	14,000
125	55.2	180.4	9,200	12,600
130	53.5	176.8	8,100	11,300
135	51.8	173.0	7,100	10,200
140	50.0	168.9	6,100	9,100
145	48.2	164.6	5,200	8,100
150	46.3	160.0	4,400	7,100
155	44.4	155.0		6,200
160	42.4	149.8		5,400
165	40.4	144.1		4,600
220 Ft. BOOM				
36	81.9	225.9	95,900	116,600
38	81.4	225.6	88,200	106,900
40	80.8	225.3	81,500	98,600
42	80.3	224.9	75,600	91,300
44	79.8	224.6	70,300	84,900
46	79.3	224.2	65,600	79,100
48	78.7	223.8	61,400	74,000
50	78.2	223.4	57,600	69,400
55	76.9	222.3	49,400	59,700
60	75.5	221.1	42,900	51,900
65	74.2	219.7	37,500	45,500
70	72.8	218.2	33,000	40,200
75	71.4	216.6	29,100	35,700
80	70.1	214.9	25,800	31,800
85	68.7	213.0	22,900	28,500
90	67.3	211.0	20,400	25,600
95	65.9	208.8	18,200	23,000
100	64.4	206.5	16,200	20,700
105	63.0	204.0	14,400	18,600
110	61.5	201.4	12,800	16,800
115	60.0	198.6	11,300	15,100
120	58.5	195.6	10,000	13,600
125	56.9	192.5	8,700	12,200
130	55.4	189.1	7,600	10,900
135	53.8	185.6	6,600	9,700
140	52.1	181.8	5,600	8,600
145	50.5	177.8	4,700	7,600
150	48.8	173.5		6,700
155	47.0	169.0		5,800
160	45.2	164.2		5,000
165	43.3	159.1		4,200